

**-SQA-SCOTTISH QUALIFICATIONS AUTHORITY**

**Hanover House  
24 Douglas Street  
GLASGOW G2 7NG**

**NATIONAL CERTIFICATE MODULE DESCRIPTOR**

**-Module Number- 0068615 -Session-1986-87**  
**-Superclass- XQ**  
**-Title- DECK EQUIPMENT AND FITTINGS (x 1/2)**

**-DESCRIPTION-**

Type and Purpose A general module (1/2) which enables the student to acquire a knowledge of the properties and uses of the various types of ropes, wires and chains, of the principles of operation of deck equipment and of the safety requirements associated with the use of the equipment.

Preferred Entry Level None.

Learning Outcomes The student should:

1. know the properties and uses of ropes, wires and chains;
2. know the structure and use of derricks;
3. know the principles of operation of deck machinery;
4. know the precautions to be observed when operating machinery.

Content/Context Corresponding to the Learning Outcomes:

1. Ropes, wires and chains: the properties and uses of synthetic and natural fibre ropes; the construction, marking and usage of ropes, wires and chains.
2. Derricks: parts of a derrick and associated gear, use of single swinging derrick, specialist gear.
3. Deck machinery: principles of operation of windlass and winch.

4. Safety precautions: relevant parts of the 'Code of Safe Working Practice for Merchant Seamen'.

Suggested  
Learning and  
Teaching  
Approaches

Active learning and teaching approaches should be used throughout.

Corresponding to the Learning Outcomes:

1. Knowledge of the properties of ropes, wires and chains could be promoted by using samples of the various rope, wire and chain types.
2. Visual observation of derricks aboard ship and of models combined with stress diagrams.
3. Visual observation of deck machinery aboard ship and of models.
4. Provision and discussion of the Code.

Assessment  
Procedures

Learning outcome 1 should be assessed by a series of oral questions, involving samples of ropes, wires and chains. Recognition of a type of rope, wire or chain, with a brief description of its characteristics, properties and suitability for a purpose should be expected. Satisfactory performance will be correct responses on six occasions. The tutor must exercise his/her professional judgement on the student's ability to communicate.

Learning outcome 2 should be assessed by asking the student to draw and label a single derrick or to rig a derrick or derrick model and answer questions related to it. Satisfactory performance will be correct responses on two separate occasions. Again the tutor must exercise his/her professional judgement on the student's ability to communicate.

Learning outcomes 3 and 4 should be assessed by asking the student to produce a checklist, to an acceptable standard, for the safe operation of two different types of deck equipment.